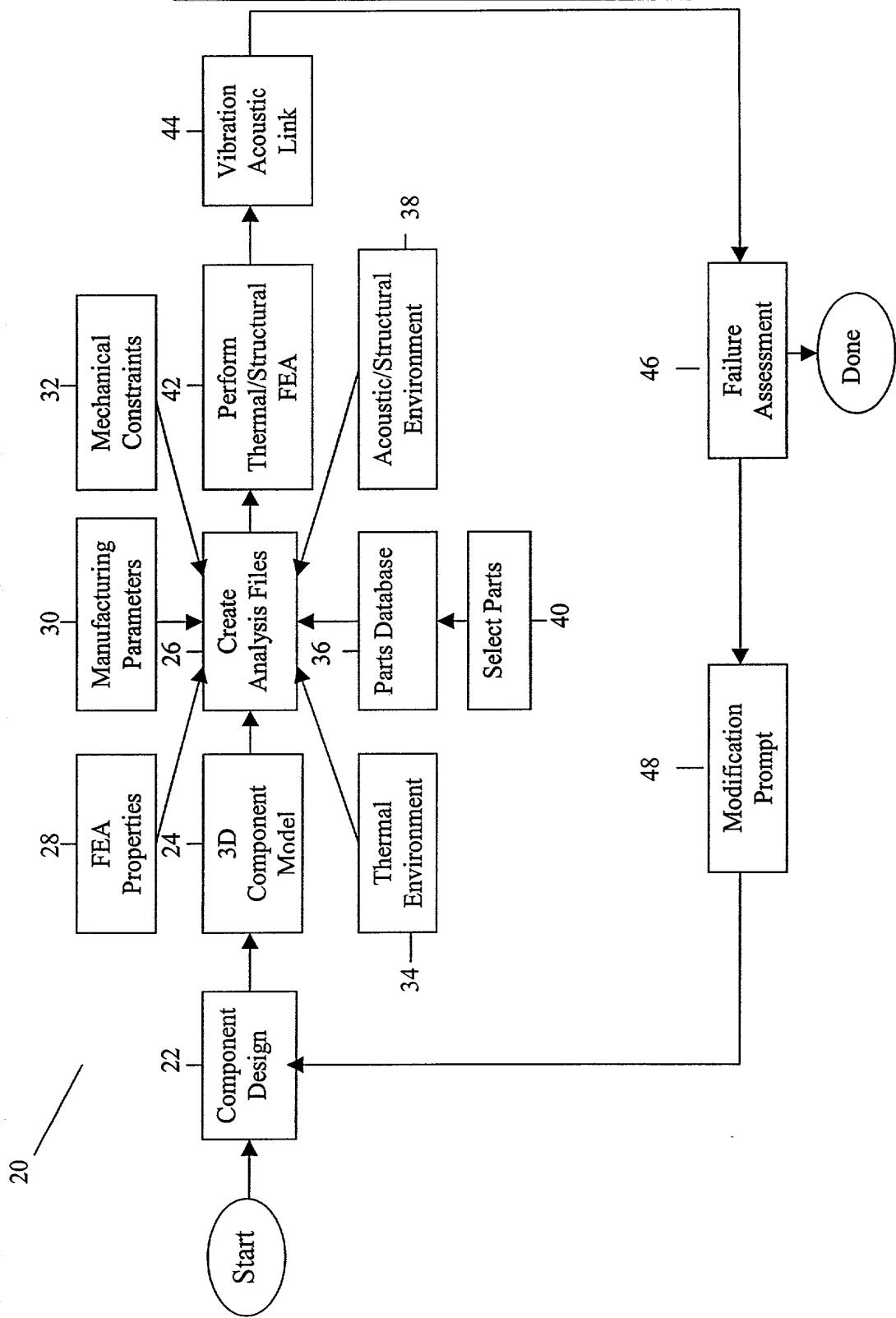


FIG. 1.



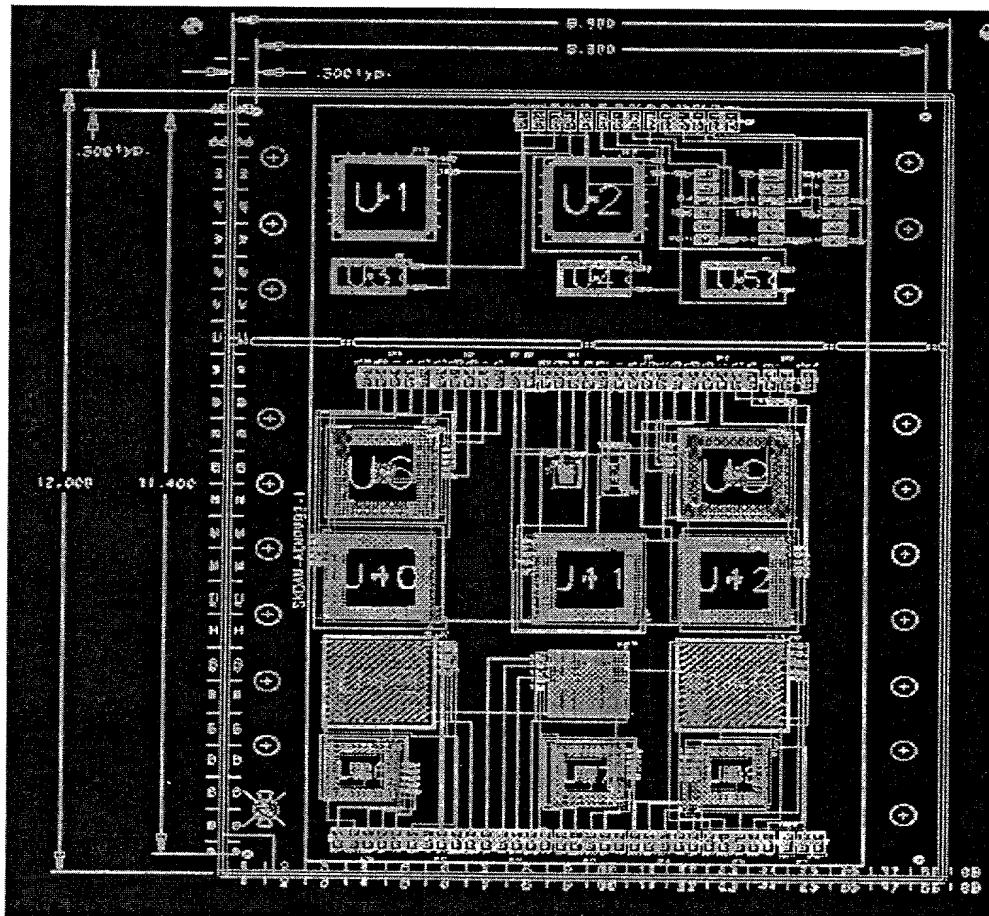


FIG. 2.

Figure 3

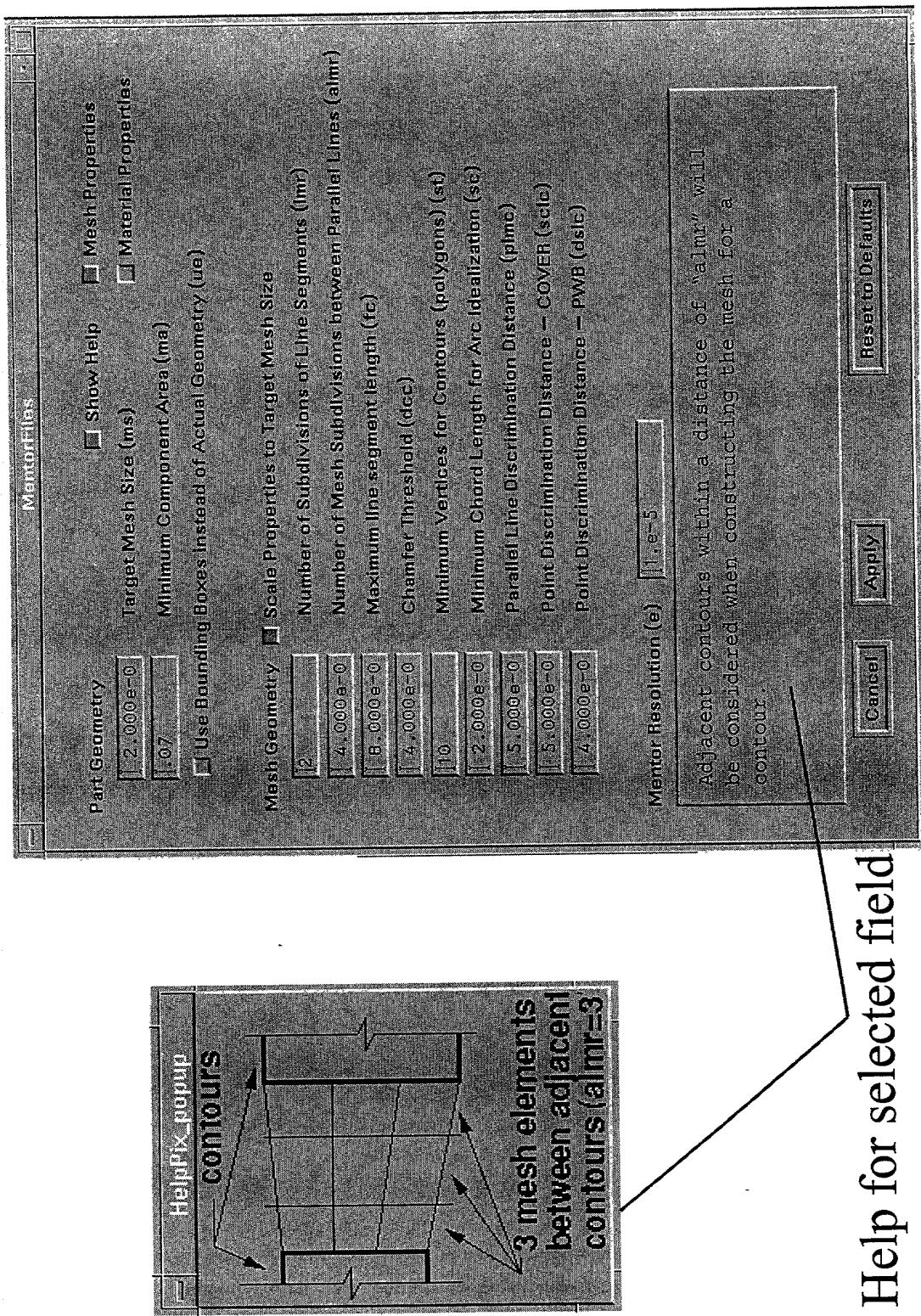
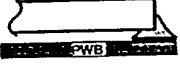
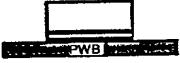
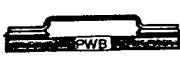
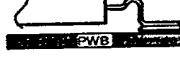


FIG. 4.

Durability Module	Description	Configuration
CCC	Leadless chip component	
54 — DIO	Planar-diode package	
52 — IND	Inductor feedthrough foil	
58 — Hybrid-GW	Gull wing	
Hybrid-SGW	Spider gull wing	
56 — L-lead	L-leaded component	
J-lead	J-leaded component	
59 — PTH	Plated-through-hole component	
PBGA	Plastic ball grid arrays	

Durability Part Number Table					
Part Number	Package Name	Lead Style	Name	Lead Material	Name
172908-00K	313_BGA_Package_100milpitch			CU	
173332-00P	T1-TSOP_54.10x22mm	HYPBD_002x		CU	
173334-11J	ppfp_208	HYPBD_024			
Y3E7U-UUL	36U_BGA_Package				
173446-00K	388_BGA_Package				
280-10020-101	280-10020-101				
280-10025-101	280-10025-101				
280-10025-102	280-10025-102				
280-10025-103	280-10025-103				
280-10025-104	280-10025-104				

BGA Package Table					
Package Name	Substrate Length	Substrate Width	Balls	Thrm Ball	Thrm Ball S
144_BGA_Package	0.312	0.312	144	0	0
144_BGA_Package	0.512	0.512	144	0	0
313_BGA_Package_100milpitch	1.380	1.380	169	0	1
313_BGA_Package_50milpitch	1.380	1.380	625	0	0
324_BGA_Package	0.906	0.906	322	6	6
352_BGA_Package	1.378	1.378	352	0	0
360_CBSA_Package	0.980	0.980	361	0	0
388_BGA_Package	1.378	1.378	388	6	6
Dummy_BGA_Package	0.512	0.512	144	12	12
1rd_bga_225f_025	1.180	1.180	225	0	0

FIG. 5.

Durability Part Number Table										
Part Number	Package Name	Lead Style Name	Lead Material Name							
172908-00K	313 BGA Package	100mm Pitch	CU							
173332-00P	T1- TSOP 54-10x2mm	HYPBD_002k	CU							
173334-11J	pfp_2181e	HYPBD_024	CU							
LESSVU-00L										
173446-00K	388 BGA Package									
280-10020-101	280-10020-101									
280-10025-101	280-10025-101									
280-10025-102	280-10025-102									
280-10025-103	280-10025-103									
280-10025-104	280-10025-104									
280-10025-105	280-10025-105									

Lead Geometry Table										
Lead Style Name	S1	S2	S3	R1	R2	R3	R4	R5	R6	R7
900-111695-F_91	U.000	U.000	U.000	U.000	U.000	U.000	U.000	U.000	U.000	U.000
HYPBD_001	0.005	-0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.014
HYPBD_002	0.000	0.080	0.008	0.000	0.000	0.000	0.000	0.008	0.008	0.005
HYPBD_002a	0.000	0.030	0.035	0.000	0.005	0.005	0.005	0.005	0.105	0.026
HYPBD_002b	0.000	0.030	0.055	0.000	0.005	0.005	0.005	0.005	0.057	0.007
HYPBD_002c	0.000	0.006	0.021	0.000	0.005	0.005	0.005	0.005	0.040	0.006
HYPBD_002d	0.000	0.006	0.021	0.000	0.001	0.001	0.001	0.001	0.050	0.017
HYPBD_002e	0.016	0.013	0.051	0.000	0.005	0.005	0.005	0.005	0.072	0.009
HYPBD_002f	0.037	0.012	0.071	0.000	0.016	0.016	0.016	0.016	0.063	0.005
HYPBD_002g	0.008	0.019	0.041	0.000	0.005	0.005	0.005	0.005	0.029	0.017
HYPBD_002h	0.001	0.026	0.052	0.000	0.006	0.006	0.006	0.006	0.076	0.009
HYPBD_002i	0.000	0.040	0.060	0.000	0.005	0.005	0.005	0.005	0.030	0.027
HYPBD_002j	0.000	0.040	0.060	0.000	0.005	0.005	0.005	0.005	0.050	0.025
HYPBD_002k	0.001	0.020	0.031	0.000	0.005	0.005	0.005	0.005	0.028	0.005
HYPBD_003	0.030	0.040	0.120	0.000	0.009	0.009	0.009	0.009	0.050	0.030
HYPBD_004	0.000	0.040	0.120	0.000	0.009	0.009	0.009	0.009	0.050	0.030
HYPBD_005	0.030	0.040	0.120	0.000	0.009	0.009	0.009	0.009	0.060	0.040
HYPBD_006	0.030	0.040	0.150	0.000	0.020	0.020	0.020	0.020	0.040	0.060
HYPBD_007	0.030	0.060	0.140	0.000	0.020	0.020	0.020	0.020	0.200	0.200

New	Copy	Delete
OK	Reset	Cancel

FIG. 6.

Durability Part Number Table

Part Number	Package Name	Lead Style Name	Lead Material Name
172908-00K	313 BGA_Package_1.00mm pitch	CU	CU
173332-00P	T1 TSOP 54-10x22mm	HIBRID_002k	
173334-11J	TSOP 208-1e	HYBRID_024	
18370-00U	SMD CEGE package		
18446-00K	388 BGA_Package		
280-10020-101	280-10020-101		
280-10025-101	280-10025-101		
280-10025-102	280-10025-102		
280-10025-103	280-10025-103		
280-10025-104	280-10025-104		
280-10025-105	280-10025-105		

Material Table

Name	Exp Coef	Density	Heat Capacity	Poisson	Shear Mod	Therm Cond	Strength	Young Mod
	U.UUU	U.UU	U.UUU	U.UU	U.UU	U.UU	U.UU	U.UU
6JSN37PB	21.400	9378.00	214.000	0.370	0.1280	51.000	3880.000	3.600
ABLEBON8360	15.000	3400.00	1000.000	0.350	0.300	2.900	2000.000	0.722
AL	21.600	2712.00	920.000	0.390	0.7600	161.000	38000.000	10.600
ALBMET	16.900	2100.00	1926.000	0.140	0.1400	296.000	55000.000	26.000
ALB POLY	13.900	1806.00	1574.000	0.210	0.920	164.350	32280.000	6.500
ALLIONY	21.600	500.00	920.000	0.330	2.410	29.000	38000.000	6.300
ALUMINA	17.100	3647.00	960.000	0.220	0.220	25.600	28450.000	40.000
AU	4.200	1940.00	127.000	0.420	0.980	315.000	14900.000	11.310
AUN	15.900	14310.00	163.000	0.300	0.300	51.000	40000.000	8.600
BRAZE	21.600	244.00	920.000	0.330	0.330	14.500	10000.000	5.300
BT LAMMATE	15.000	1439.00	1135.000	0.300	1.330	0.310	3880.000	2.460
CEP A	6.000	3847.00	960.000	0.220	1.390	27.600	28450.000	40.000
CEP B	9.000	2800.00	800.000	0.300	1.390	0.900	28450.000	40.000
CEP C	11.000	2800.00	800.000	0.300	1.390	0.900	28450.000	40.000
CEP D	6.500	3847.00	960.000	0.220	1.390	27.600	28450.000	40.000
CERA	6.000	3147.00	960.000	0.220	1.390	27.600	28450.000	40.000
CERB	9.000	2800.00	800.000	0.300	1.390	0.900	28450.000	40.000
CERC	11.000	2800.00	800.000	0.300	1.390	0.900	28450.000	40.000
CERP	6.500	3847.00	960.000	0.220	1.390	27.600	28450.000	40.000

FIG. 7.

FIG. 8.

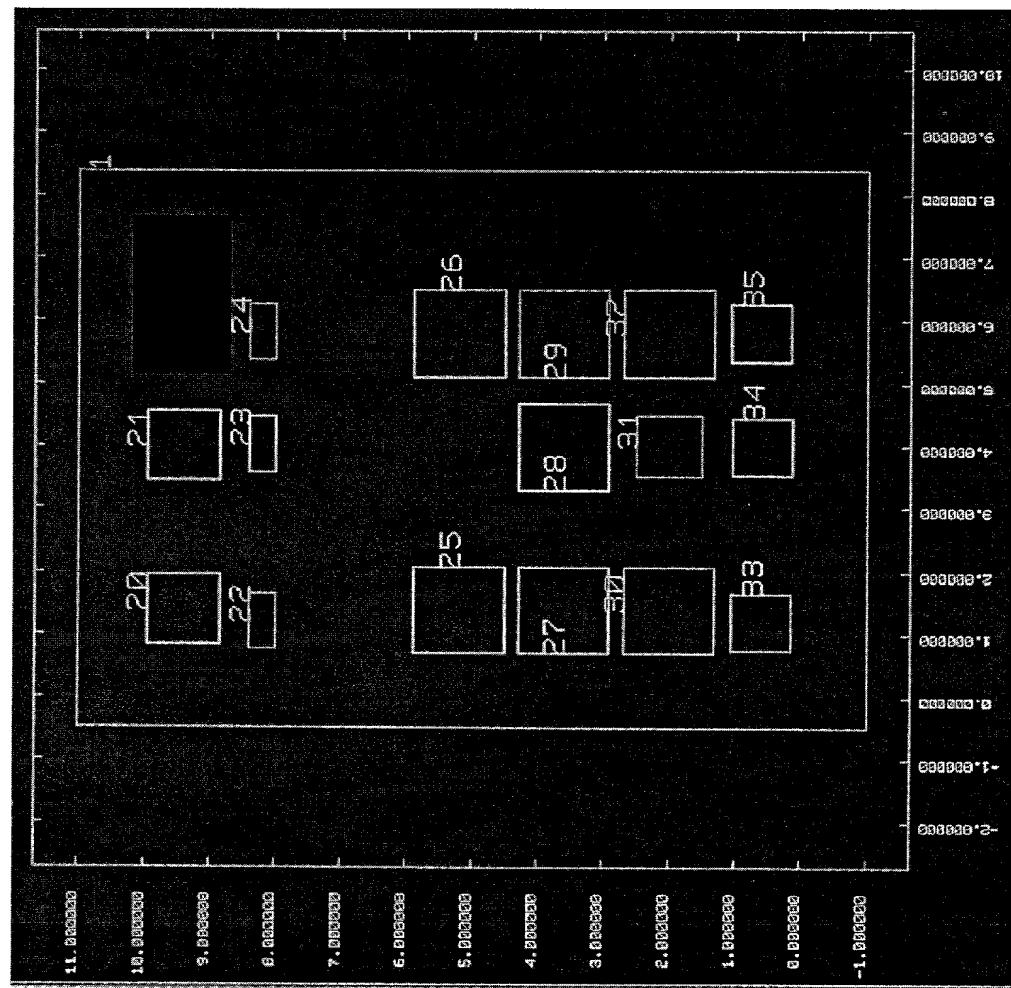


FIG. 9.

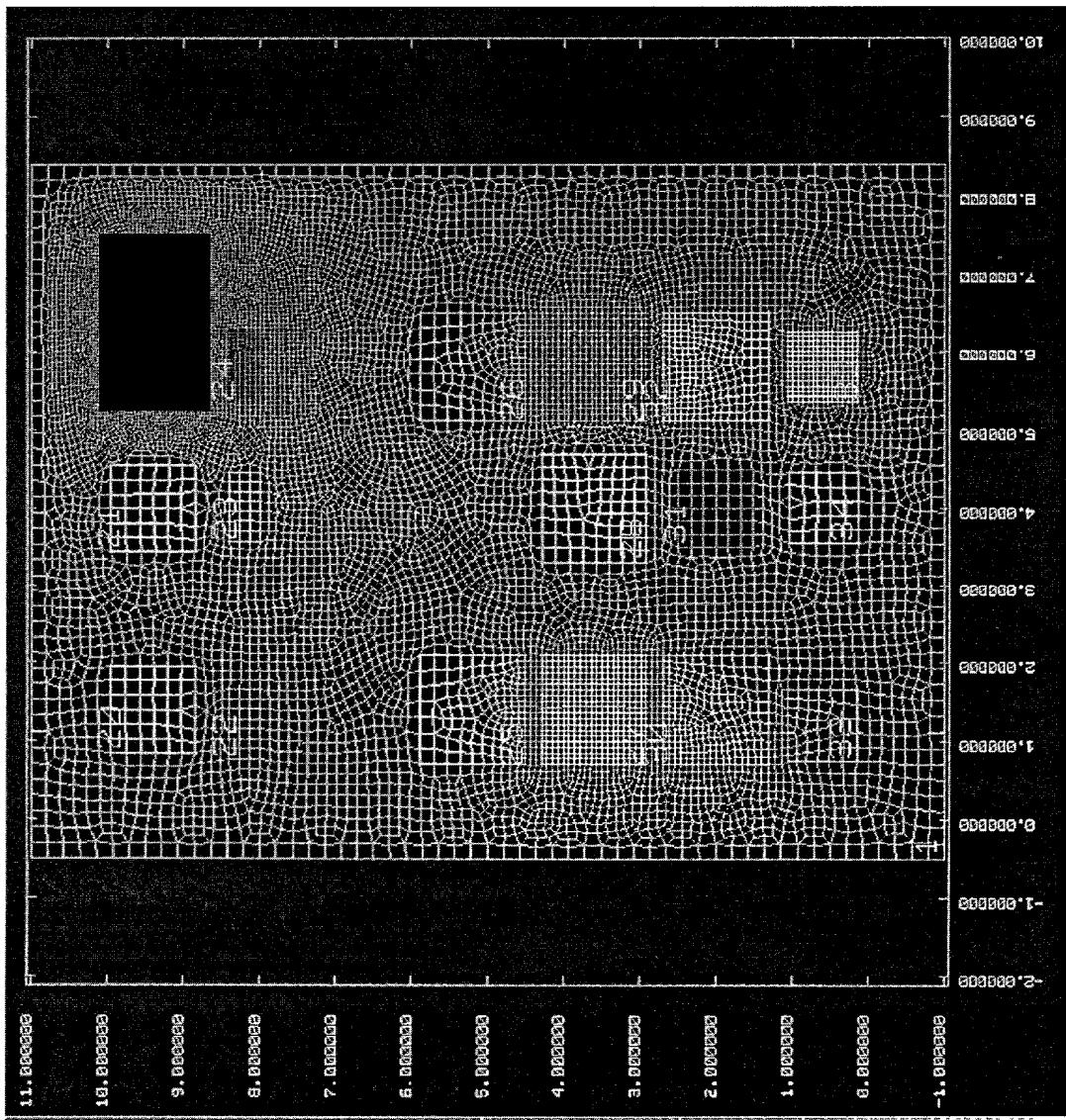
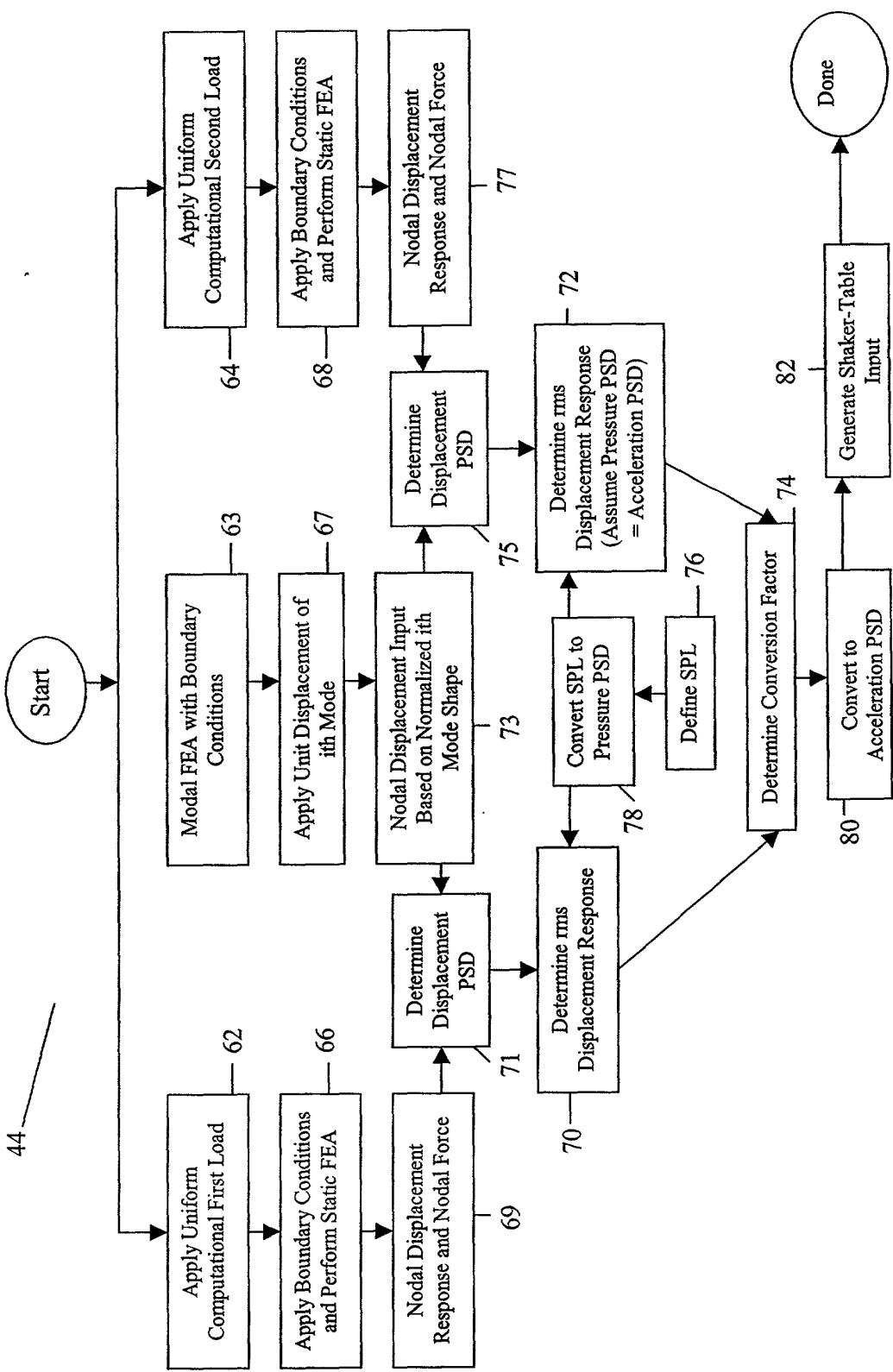


FIG. 10.



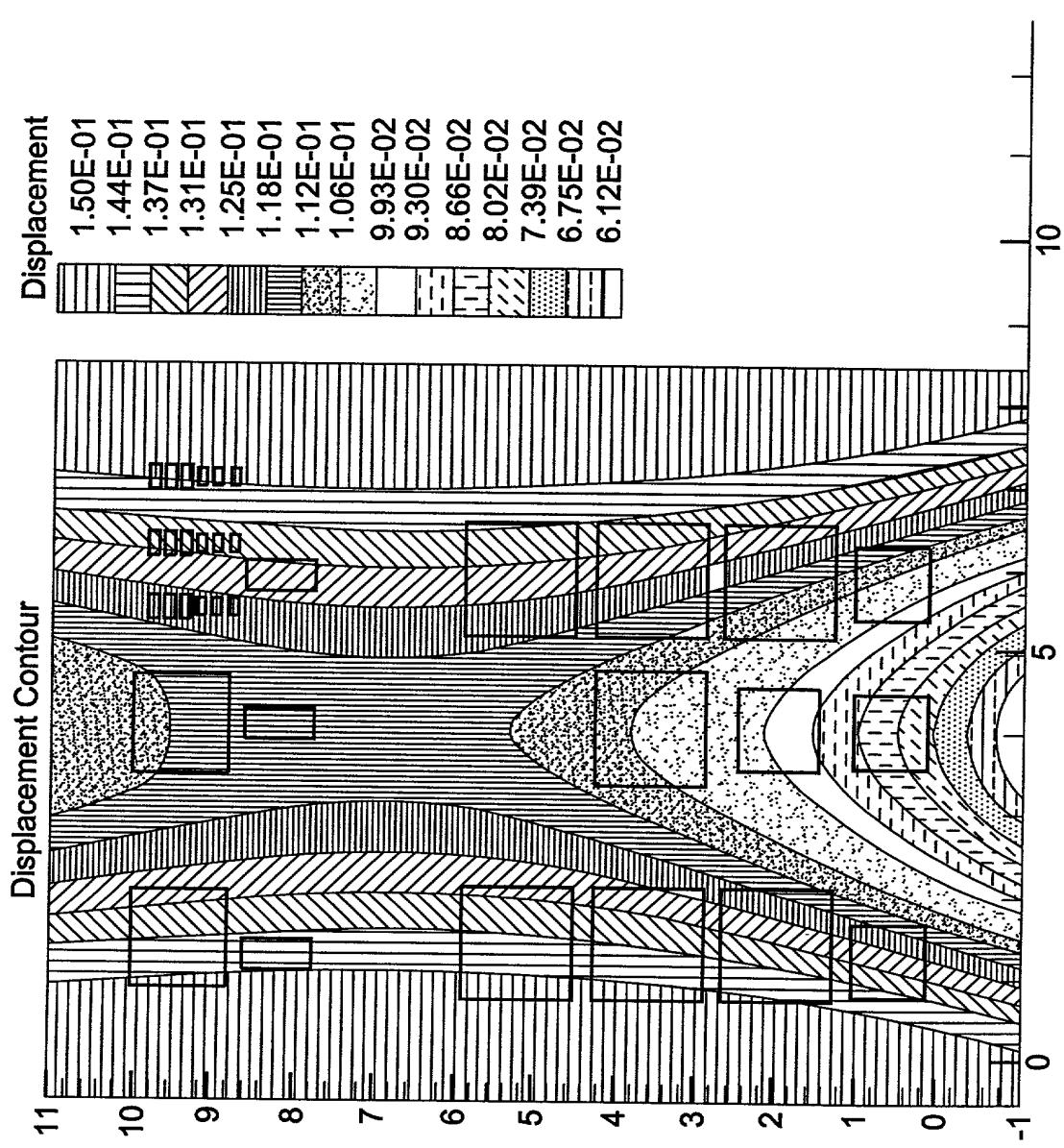
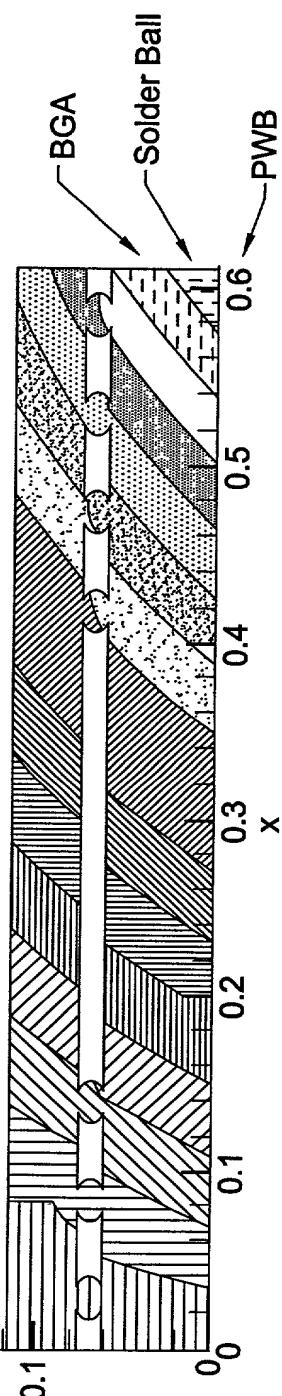
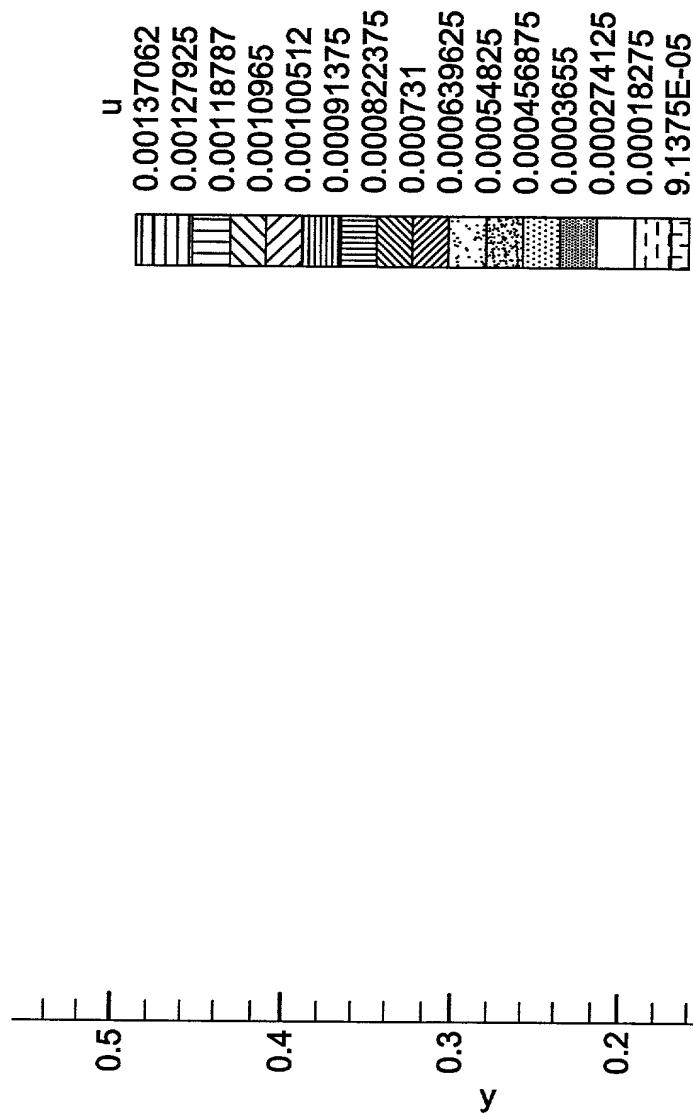
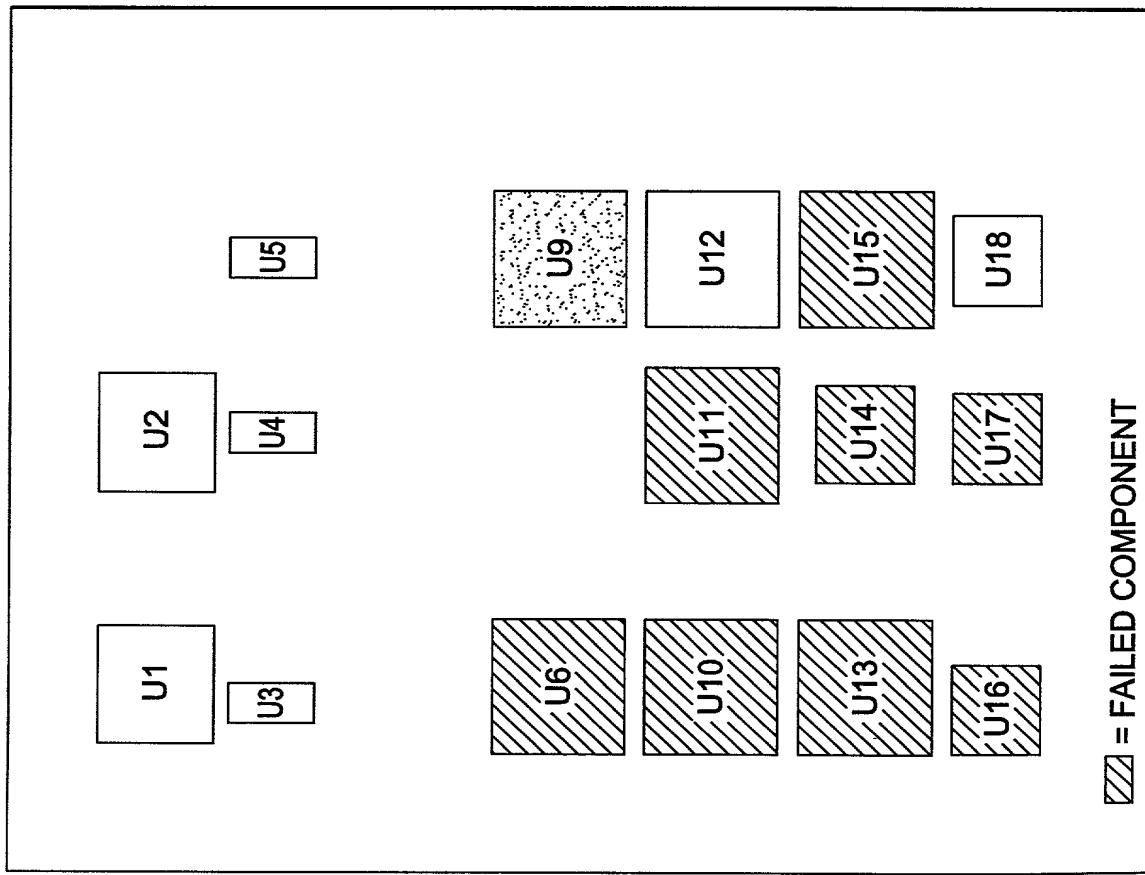


FIG. 12.



FAILED COMPONENT PLOT



▀▀ = FAILED COMPONENT

FIG. 13.